...from concept to acquisition

NAVAL WIRELESS NETWORKS SUMMIT

Sponsored by: NETWARCOM and PEO Ships   Hosted by: SPAWAR AND PEO C4I

Naval Wireless Networks Summit Agenda

Tuesday, 17 Aug 2004 (Day 1) **Wednesday, 18 Aug 2004 (Day 2)** **Thursday, 19 Aug 2004 (Day 3)**

Tuesday, 17 Aug 2004 (Day 1)

San Diego/Golden West Rooms

Time	Event
0700	Registration
0830	Opening Remarks
0930	Wireless Networks Overview
1030	Community of Interest Discussion
1130	Lunch (Town & Country Room)
	Keynote Speaker Mr. Tom Higbee
1300	Case Studies Presentation and Panel Discussion
	USS PHILIPPINE SEA (CG 58)
	USS HOWARD (DDG 83)
1530	Wrap Up
1600	

Wednesday, 18 Aug 2004 (Day 2)

Tracks - Royal Palm Rooms

Time				
0700	Registration			
0800	Opening Remarks			
0900	Industry Day Exhibits	Track 1 Session 1	Track 2 Session 1	Track 3 Session 1
1000	San Diego Golden West Rooms	Track 1 Session 2	Track 2 Session 2	Track 3 Session 2
1100				
1200		Lunch (Town & Country Room)		
1300				
1430	Electronic Feedback	Track 1 Session 3	Track 2 Session 3	Track 3 Session 3
1530				
1630	Wrap Up			
1700				

Thursday, 19 Aug 2004 (Day 3)

San

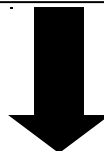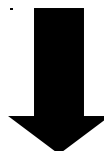| Time	Event
0700	Registration
0830	Day 1 & 2 Recap
0900	Alignment of Fleet Requirements & Policy
1000	Certification & Accreditation IATO – ATO Process
1100	COI Framework Development
1200	Lunch (Town & Country Room)
1330	Use/Business Case Criteria Development
1430	Defining the Way Ahead
1530	Actions and Plans Collaboration Tools
	FORCENET Integration Panel Discussion
1600	Closing Remarks
1700	

SMARTSHIP
PROGRAM MANAGER

NAVAL
WIRELESS
NETWORKS
SUMMIT

OUTLINE

- **BACKGROUND & RECAP OF FIRST SUMMIT**

- **CHALLENGES & OPPORTUNITIES**

- **SUMMIT OBJECTIVES**

Smartship PROGRAM

SMART FLEET EXECUTIVE COMMITTEE

SMARTSHIP INNOVATION CELL

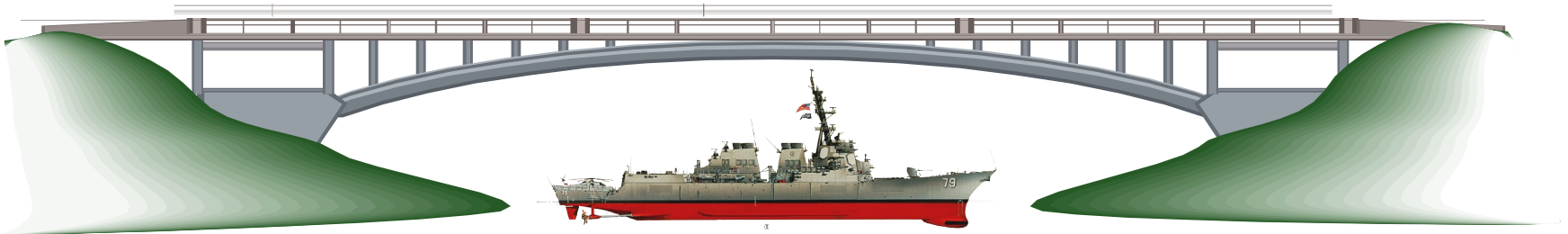| **ECDIS-N ELEX NAV IPT**	**ADVANCED FOODSERVICE IPT**	**DC AUTOMATION IPT**	**WIRELESS NETWORKS IPT**
PEO IWS 6B	**SURFOR N4**	**NAVSEA 05**	**CFFC NETWARCOM**

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TECHNOLOGY TRANSITION PROCESS

Smartship PROGRAM

SEA TRIAL TECHNOLOGY DEMO CRITERIA AND PRODUCTS

TECHNOLOGIES FROM ONR, INDUSTRY AND ACADEMIA

- ✓ **HUMAN SYSTEMS INTEGRATION**
- ✓ **MANPOWER & TRAINING ASSESSMENT**
- ✓ **POLICY & PROCEDURES**
- ✓ **ENVIRON QUALS**

- • **TECH REQUIREMENTS**
- • **BUSINESS CASE ANALYSIS**
- • **TECH TRANSITION AGREEMENT**

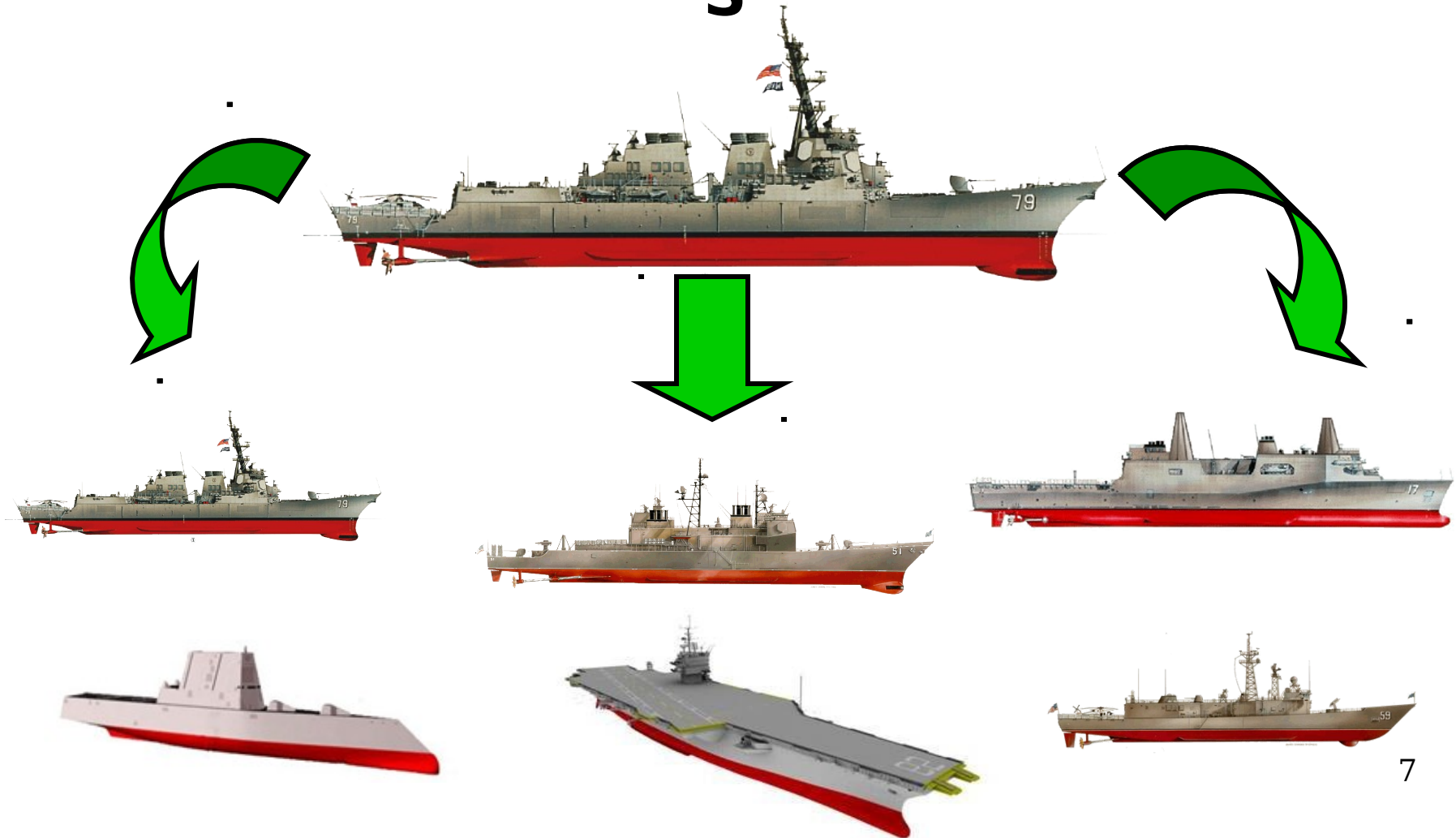**NAVY PROGRAMS OF RECORD**

SCIENCE & TECHNOLOGY	SYSTEM DEVELOPMENT & DEMONSTRATION	PRODUCTION & DEPLOYMENT

TECHNOLOGY TRANSITION

SEA TRIAL DEMONSTRATIONS

TECHNOLOGY TRANSITION

TECHNOLOGY	SEA TRIAL DEMONSTRATION		PROGRAM OF RECORD
INTEGRATED SHIP CONTROLS	CG 48	97	PEO SHIPS ISC
INTEGRATED BRIDGE SYSTEM	CG 48	97	PEO SHIPS IBS, PEO IWS ECDIS-N
WIRELESS COMMS	CG 48	97	NAVSEA 06
COMMERCIAL SATCOM	MULTIPLE	97 – 00	PEO C4I SATCOM
WIRELESS NETWORKS	MULTIPLE	98 –	PEO C4I ISNS NAVSEA 05 ICAS
RSVP VIDEO & SENSOR SURVEILLENCE	CG 61	01	PEO SHIPS DDX
SHIPHANDLING TRAINER	CG 48	01	PEO IWS TSTS
ADVANCED FOODSERVICE	DDG 67 CG 53	01 03	PEO SHIPS DDX, CG, DDG
AUGMENTED REALITY FIREFIGHTING TRAINER	DDG 69	04	NAVSEA 05
EXPLOSIVE RESISTANT COATINGS	TBD	05	PEO SHIPS LCS, DDX
KNOWLEDGE PROJECTION	TBD	05	PEO C4I
VOICE ACTIVATED ELECTRONIC LOG	TBD	05	NAVSEA 05 ICAS PEO SHIPS IBS

SPEED TO CAPABILITY - RISK MITIGATION - COST AVOIDANCE

WIRELESS NETWORK DEMONSTRATIONS AT SEA

- **USS THE SULLIVANS (DDG 68)**
  - **CONCEPT DEMONSTRATION**
- **USS HOWARD (DDG 83)**
  - **IEEE 802.11B**
- **USS MASON (DDG 87)**
  - **POWER OVER ETHERNET**

- **USS CORONADO (AGF 11)**
  - **SECURE EMISSIONS EVALUATION**

REAL WORLD PROBLEMS

- **NAVY POLICIES AND OPERATING PROCEDURES**

- **MARKET OBSOLESCENCE**

- **ADAPTING COMMERCIAL TECHNOLOGY FOR WARSHIPS**
  - **EMI**
  - **INFORMATION ASSURANCE**
  - **SHOCK AND VIBRATION**

RECAP OF FIRST SUMMIT

- **JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LAB JOINT WARFARE ANALYSIS DEPARTMENT**

- **8 - 10 DECEMBER 2003**

- **76 / 225 PARTICIPANTS**
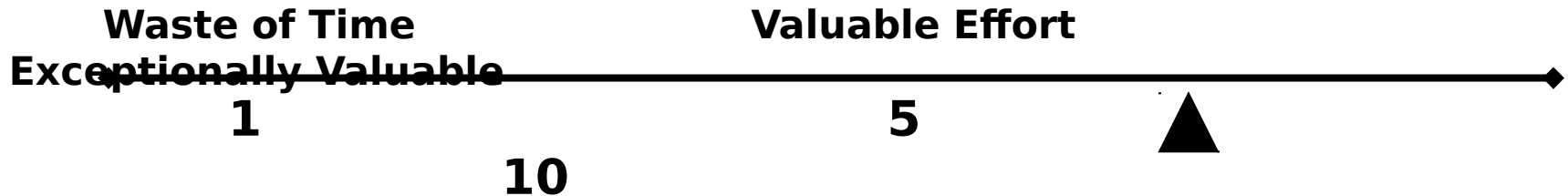
- **28 VENDORS – INDUSTRY DAY**

RECAP OF FIRST SUMMIT

- **ASSEMBLED COMMUNITY OF INTEREST FOR INFORMATION EXCHANGE**

- **IDENTIFIED ISSUES**
  - **POLICY**
  - **INFORMATION ASSURANCE (SECURITY)**
  - **OPPORTUNITIES FOR AT SEA DEMONSTRATIONS**
  - **APPLICATIONS**

- **ESTABLISHED FOUNDATION FOR WAY AHEAD**

FIRST SUMMIT ASSESSMENT

Waste of Time　　　**Valuable Effort**

Exceptionally Valuable

1　　　　　　　　　5　　　▲

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- **Overall Conference Assessment　8**
- **Industry Day 8**
- **Recommendations for future Summit**
  - **Strong vote to continue**
  - **Some design change**
  - **Strong desire to attend future Summit**
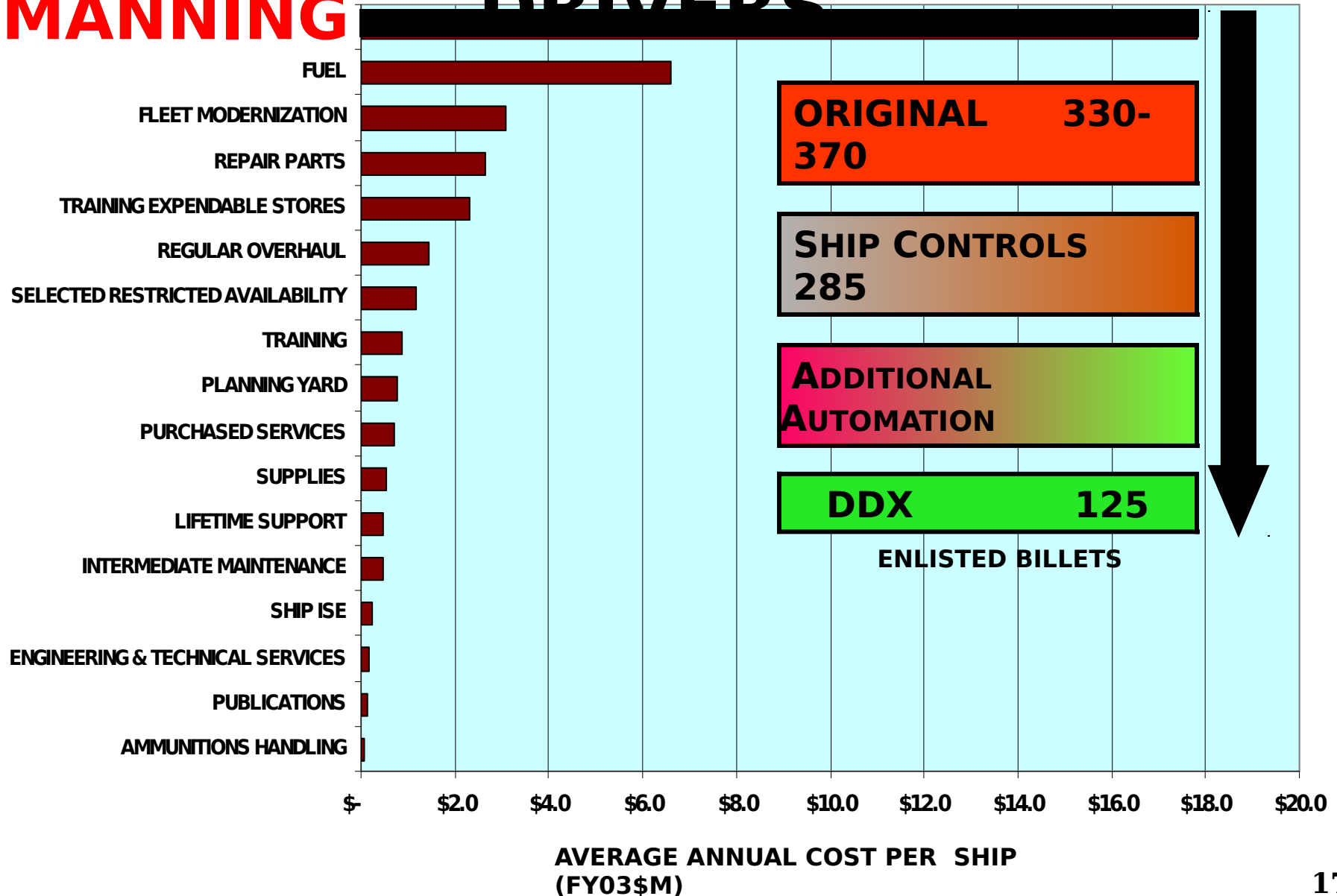
SIGNIFICANT EVENTS SINCE FIRST SUMMIT

- **DOD WIRELESS POLICY APPROVED APR 04**

- **USS HOWARD (DDG 83) DEPLOYED WITH STENNIS STRIKE GROUP MAY 04**
  - **APPROVED OPERATIONAL WIRELESS NETWORK**

- **NAVAL NETWORK WARFARE COMMAND**
  - **REALIGNMENT**
  - **OPERATIONAL DESIGNATED APPROVAL AUTHORITY**

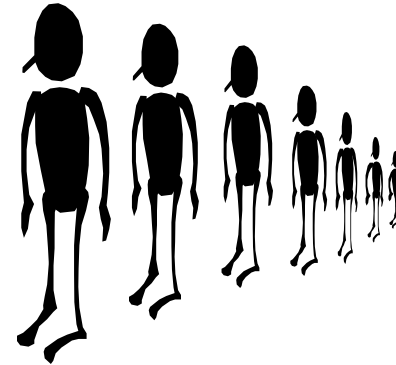- **IEEE 802.11i STANDARD RATIFIED JUN 04**

AEGIS CRUISER COST DRIVERS

MANNING

Bar chart — categories (top to bottom):

- MANNING
- FUEL
- FLEET MODERNIZATION
- REPAIR PARTS
- TRAINING EXPENDABLE STORES
- REGULAR OVERHAUL
- SELECTED RESTRICTED AVAILABILITY
- TRAINING
- PLANNING YARD
- PURCHASED SERVICES
- SUPPLIES
- LIFETIME SUPPORT
- INTERMEDIATE MAINTENANCE
- SHIP ISE
- ENGINEERING & TECHNICAL SERVICES
- PUBLICATIONS
- AMMUNITIONS HANDLING

X-axis: $- , $2.0, $4.0, $6.0, $8.0, $10.0, $12.0, $14.0, $16.0, $18.0, $20.0

AVERAGE ANNUAL COST PER SHIP (FY03$M)

ORIGINAL	330-370
SHIP CONTROLS	285
ADDITIONAL AUTOMATION	
DDX	125

ENLISTED BILLETS

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THE CHALLENGES

SHIPBOARD MANNING

TECHNOLOGY ADVANCEMENT

INFORMATION TECHNOLOGY RATE OF CHANGE
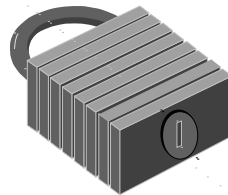
THE NEED

WARFIGHTER
- – **SITUATIONAL AWARENESS**
- – **DECISION TOOLS**
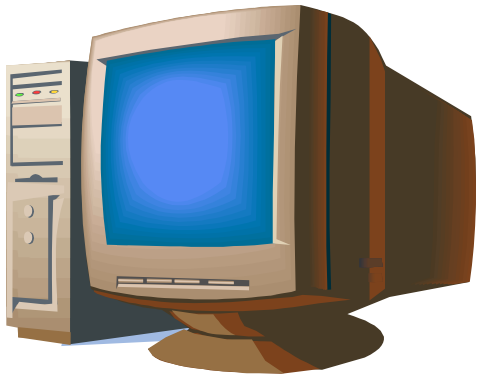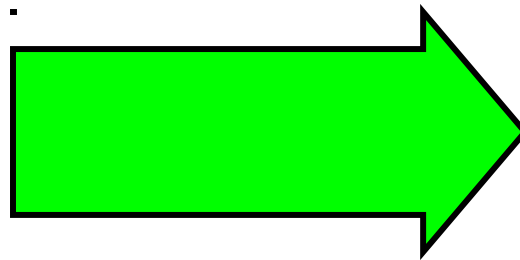- – **MOBILITY**

INTEGRATION RELIABILITY AND AVAILABILITY

SECURITY

THE WIRELESS SOLUTION

...from concept to acquisition

NAVAL WIRELESS NETWORKS SUMMIT

Sponsored by: NETWARCOM and PEO Ships   Hosted by: SPAWAR AND PEO C4I

SUMMIT PARTICIPANTS

- NAVY
- USMC
- USA
- MSC
- USAF

- OSD
- NSA
- DISA
- ACADEMIA
- INDUSTRY

INDUSTRY

- **BOEING**
- **CISCO**
- **EDS**
- **ERICSSON**
- **GENERAL DYNAMICS**
- **HARRIS**
- **IBM**
- **INTEL**
- **LOCKHEED MARTIN**

- **LUCENT**
- **MITRE**
- **MOTOROLA**
- **NOKIA**
- **NORTHROP GRUMMAN**
- **QUALCOMM**
- **RAYTHEON**
- **VERIZON**

SUMMIT OBJECTIVES

- **ESTABLISH FRAMEWORK FOR COMMUNITY OF INTEREST**

- **IDENTIFY ISSUES ASSOCIATED WITH INTEGRATING TECHNOLOGIES TO SATISFY POLICY AND OPERATIONAL REQUIREMENTS**

- **DEFINE NAVY BUSINESS CASE ANALYSIS CRITERIA**

- **REVIEW STRATEGIC PLAN**